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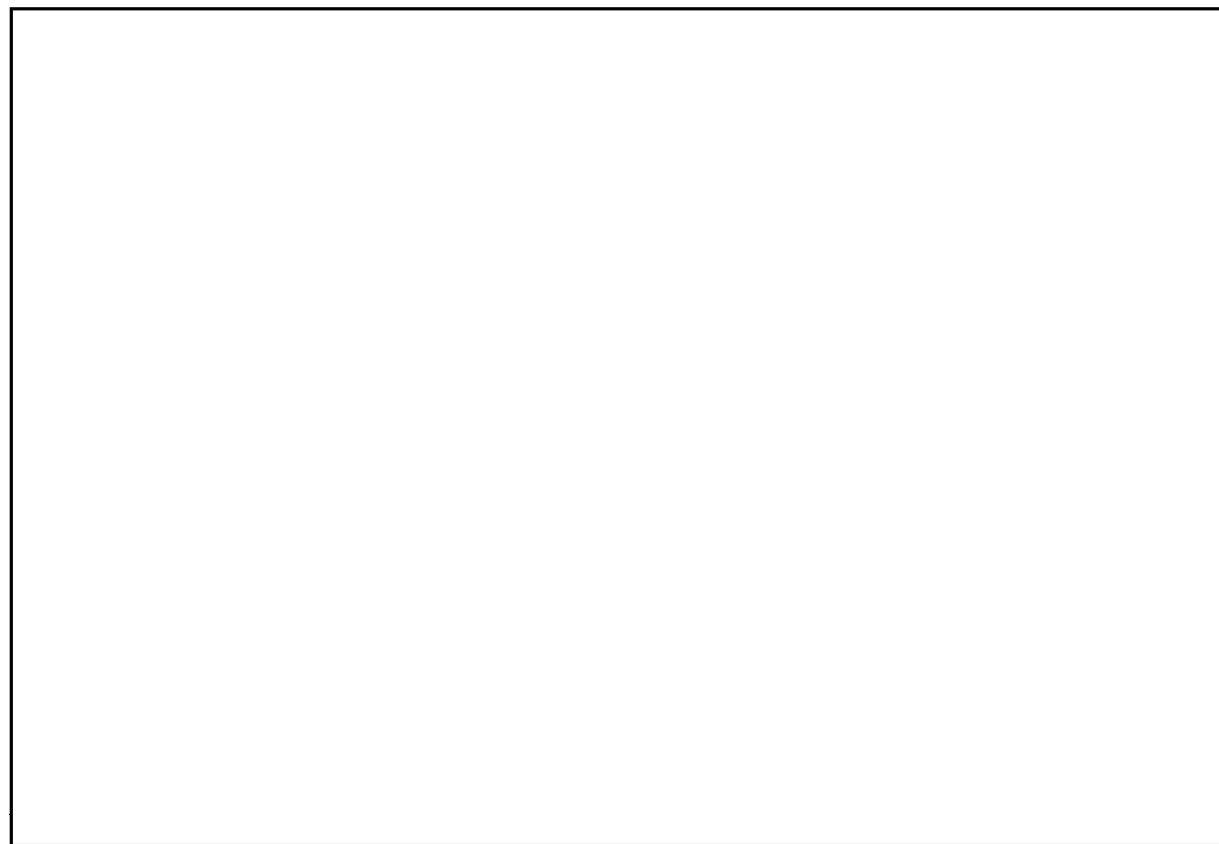
EXRAND-M-31-70  
26 March 1970

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COMIREX SUBCOMMITTEE  
For  
EXPLOITATION RESEARCH AND DEVELOPMENT

Minutes of Meeting Held in IAS Conference Room  
0900-1100, Wednesday, 18 March 1970

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\*Special Briefing Only.

1. Special Briefing.

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[redacted] of NPIC/TSSG/Applied Photo  
Sciences Division, who presented a special briefing on the Breakdown Team  
function at the processing site.

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GROUP 1 EXCLUDED FROM  
AUTOMATIC DOWNGRADING  
AND DECLASSIFICATION

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2. Approval of Minutes.

Except for a minor correction, the minutes, M-30-70, were approved.

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3. Announcements.

a. The new Directory of Participants of EXRAND has been printed. It will be mailed to the members by the secretary.

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b. [ ] announced the publication of a test and evaluation report on the Dual Viewing Microstereoscope. Copies will be mailed to the members by the secretary.

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c. [ ] presented the schedule of the afternoon trip to the U.S. Geological Survey at Reston which was to immediately follow the meeting.

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d. [ ] gave a brief report on the procurement of the New Niagara Printer and stated the opportunity to purchase the equipment at a low price because of the large order now underway.

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e. [ ] announced the availability to the Community of a surplus item at NPIC:

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One Stereo Chip Comparator Model 405-B manufactured by [ ]  
[ ] Any interests should be directed to the Executive Secretary.

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f. The Air Force member announced the availability and services of the optical technician of [ ] to military units in Europe. A trip is planned to take care of the USAF repair and training problems with microstereoscopes and related equipment at overseas installation and mobile units.

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4. Old Business.

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a. [ ] of NPIC/Engineering Support Division/Test and Evaluation Laboratory, gave a briefing on the current status of the acceptance tests of the 1540 Split Format Light Table prototypes now at NPIC. Latest photos of the two light tables are attached. There will be an open house at NPIC to view the tables on 25 March. Those members interested in attending are to contact [ ] on Code 143, extension [ ]

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[ ] believes that the tests on the tables will be completed in about 30 days. Both light tables appear at this time to be very successful (there are some problem areas), both are competitive. [ ] also commented on the acceptance and test procedures on the Mod II Advanced Rhomboid prototype which had just arrived at NPIC. The tests so far on the viewing of imagery in both monoscopic and stereoscopic modes appear to be fine; more evaluation must be done before any information is released by NPIC.

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The question concerning determination and choice of manufacturer and which one would provide which service member with light tables was not resolved, nor could it be at this time. [ ] stated that USAF would purchase only one make. The Navy and Army expressed the same opinion that they would not mix their orders. [ ] commented that meetings between the concerned members and NPIC would have to be set up after the prices, dates of delivery, quantities of production, etc. had been firmed.

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[ ] also suggested that the NPIC representative request a presentation on the Integrated Information System at NPIC for a future date, perhaps in June. [ ] indicated he will seek approval for this briefing.

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[ ] stated that the [ ] briefing for EXRAND was on schedule for the EXRAND meeting in May. He stated also that the trip to SAC by EXRAND on 25 May, still appeared in order. He will make more detailed arrangements as the time for the trip draws nearer.

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d. [ ] furnished the members with more information about the trip to Westover in April; he asked that the members notify either him or [ ] of those who would be going, in order to complete preparations. He handed out a proposed trip schedule.

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e. The Chairman asked for any input on the review of EXRAND Terms of Reference and Objectives. There were none. The Chairman then stated that [REDACTED] who was not present, asked that we integrate the new color acquisition potentials to the Objectives. The members agreed that this should be done but that we would wait for a more definitive proposal from [REDACTED]

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f. [REDACTED] brought up the subject of the Technical Task Team R&D categories. The members agreed to accept the new categories as recommended by [REDACTED] a memorandum on this subject will be mailed to the members.

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g. In view of the deletion of the proposed trip to [REDACTED] California by EXRAND, [REDACTED] suggested that a briefing be given during the May meeting on the operation of STC [REDACTED] by either [REDACTED] or the new EXRAND Chairman. The Chairman asked the Executive Secretary to approach [REDACTED] to comment on the suggestion.

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#### 5. New Business.

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[REDACTED] presented three new NPIC R&D projects to EXRAND for coordination. The paper is attached for use of members and their parent organization. Any comments should be addressed directly to [REDACTED]

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#### 6. Adjournment.

The meeting adjourned at 1105. Participants of EXRAND proceeded to the U.S. Geological Survey at Reston, Virginia, stopping en route for a luncheon at Evan's Farm Inn.

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#### 7. Addendum.

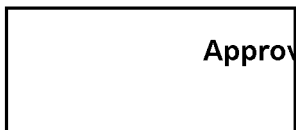
Twenty-two members and participants of EXRAND arrived at USGS at 1320 for briefings and a tour of the Special Operations of USGS.

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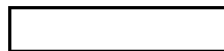
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[Redacted] of USGS hosted a most interesting and useful series of briefings and a tour.



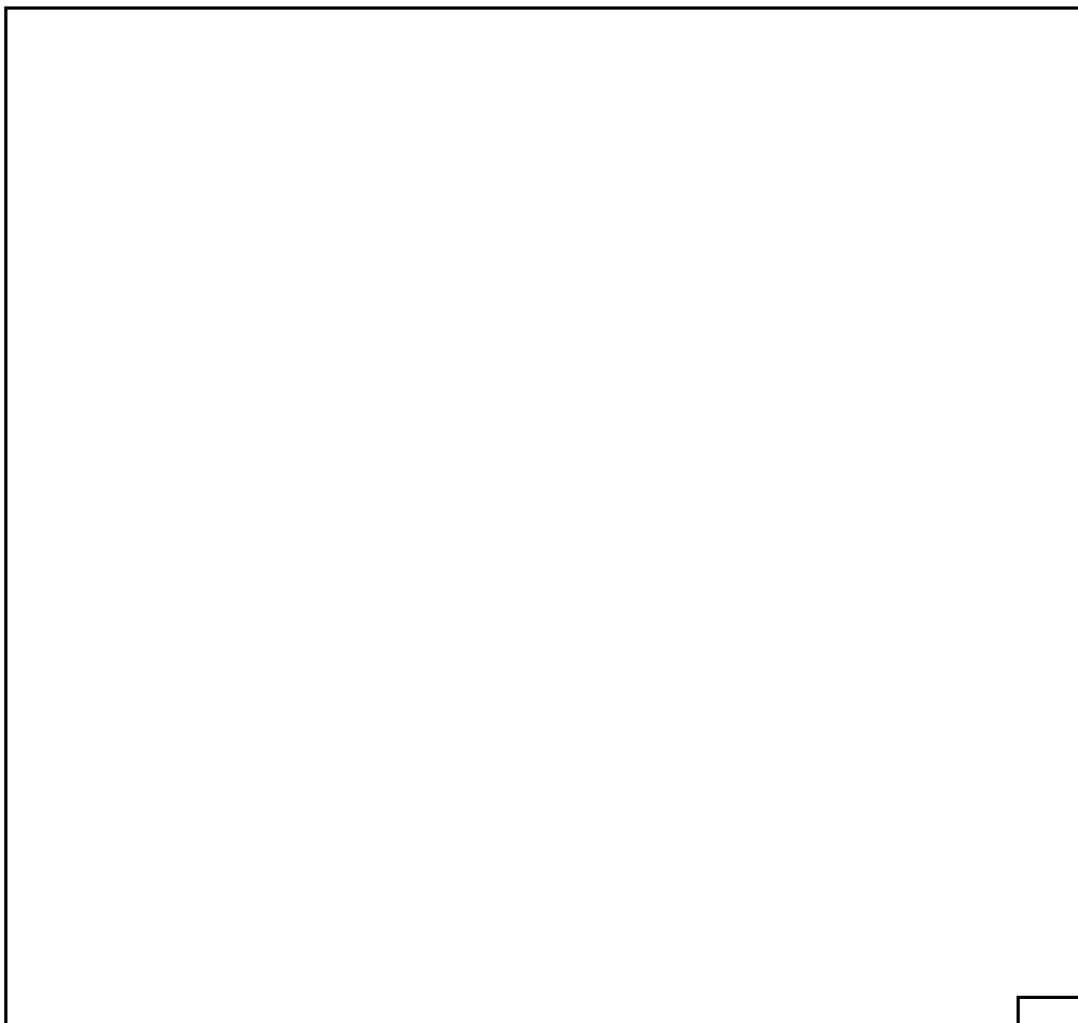
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Executive Secretary, EXRAND

Attachments:

- I - Photos of Two 1540 Light Tables.
- II - Schedule (last page) of Procurement of 1540 Light Tables.
- III - New NPIC R&D Projects.

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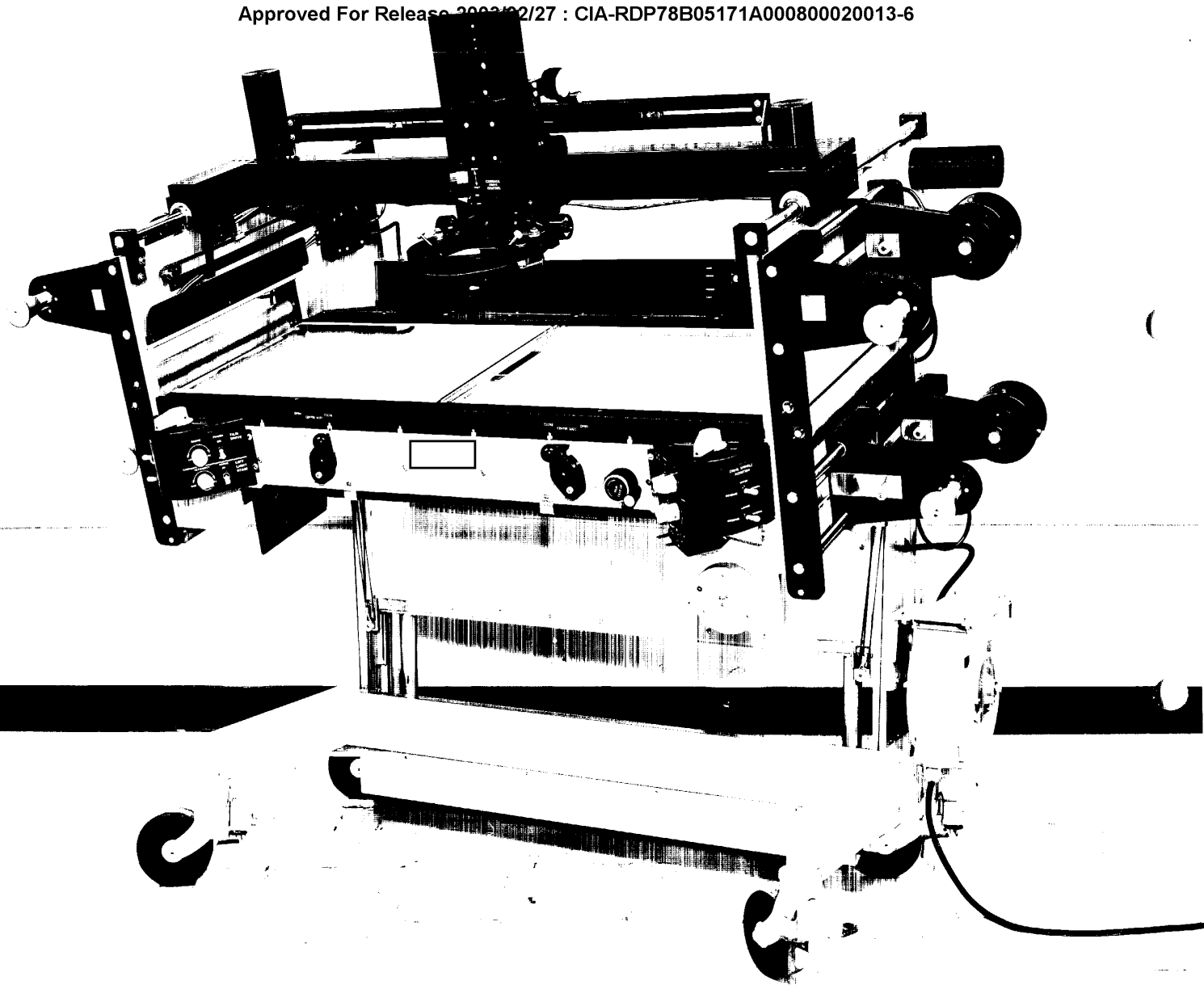
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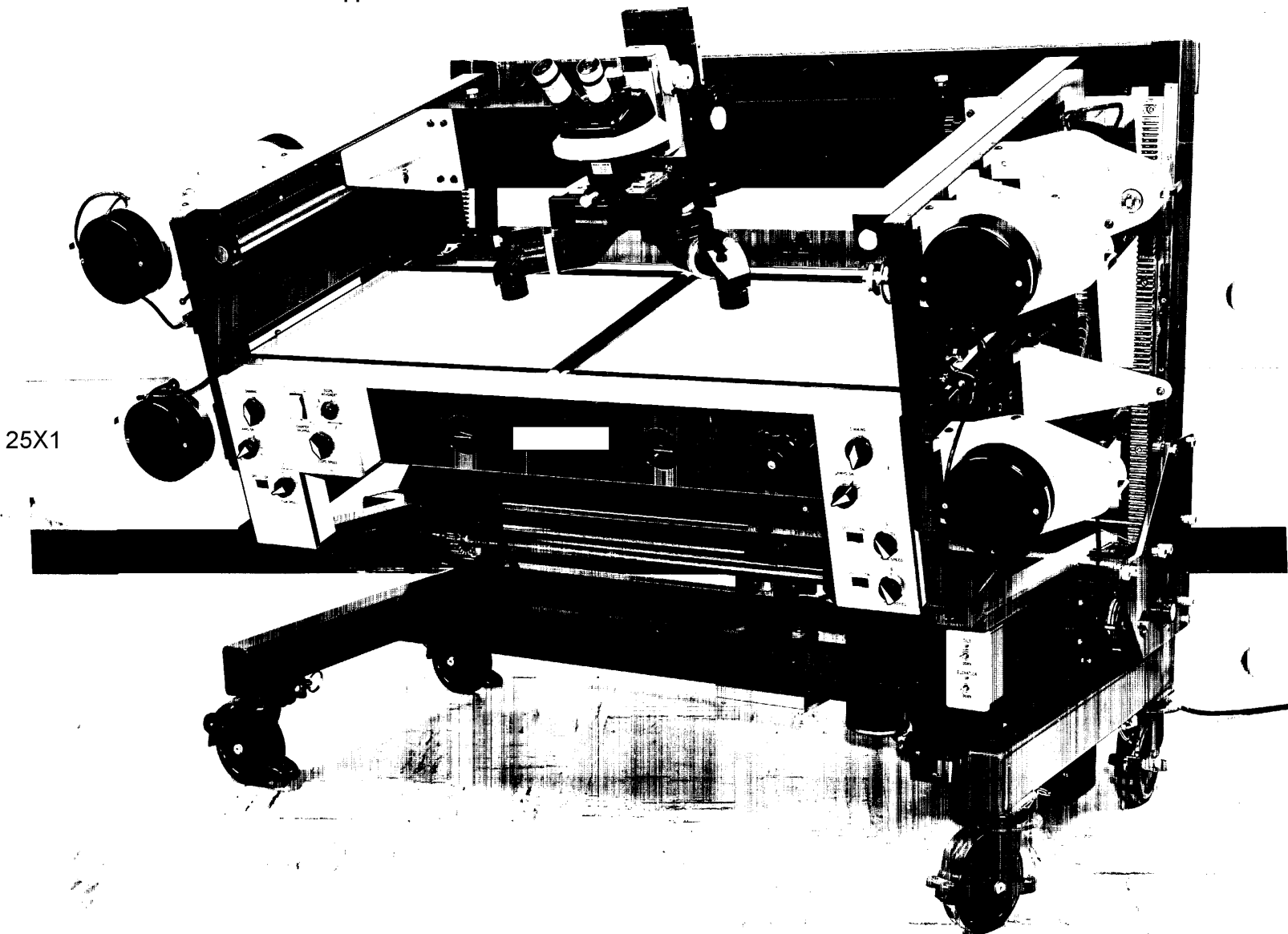
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ATTACHMENT II to

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Possible Procurement Schedules

1540 Split Format Light Tables

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Date of Delivery	Production Rate	Production Rate	NPIC	IAS	Delivery To			
					DIAAP-9	AF	ARMY	NAVY
August 1970	6	0	4	1	1	-	-	-
September	30	10	25	3	6	2	1	2
October	30	30	37	5	10	3	1	3
November	30	30	37	5	10	3	1	3
December	30	30	37	5	10	3	1	3
January 1971	30	30	(165) 37	(20) 1	(40) 11	5	1	(14) 4
February	30	30	(20) 8	-	(20) 12	(20) 18	5	10
March	30	30	(15) 15	-	-	(36) 22	(20) 10	(20) 10

Total Order FY 70 - 272

Total Order FY 72 - 15

NPIC 165  
IAS 20  
DIA 40  
AF 20  
NAVY 15

NPIC 15

Total Order FY 71- 116

NPIC 20  
DIA 20  
AF 36  
ARMY 20  
NAVY 20

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ATTACHMENT III to

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MEMORANDUM FOR: Chairman, EXRAND

SUBJECT : Coordination of Three NPIC R&amp;D Projects

1. The following paragraphs briefly describe three NPIC R&D projects planned for contracting in FY-70. Inquiry has been made concerning the uniqueness of the first two projects at CIA, NRTSC, USATOPOCOM, and RADC. These descriptions are provided for information to EXRAND members and to request their notification if any unwarranted duplication of other R&D projects is implied.

2. Viewing Systems Study. This viewing systems study is directed toward compiling, in one single source, somewhat generalized objective data on the design/production problems commonly encountered in the development of imagery exploitation viewing equipment. The study will encompass, but not be limited to, such optical parameters as magnification, image rotation, field-of-view, resolution, focus, phoria, field flatness, color aberrations, coma, flare, etc. The advisability of pursuing different optical design approaches and the establishment of trade-off and cross-over points relating to development cost, precision manufacture and follow-on production cost versus anticipated optical performance, are desired results.

3. Coherent, White-Light Viewer. This development effort will consist of the design and fabrication of a coherent white light viewer breadboard suitable for evaluation of predicted increased resolution and for use as experimental equipment to determine light source specifications for color film viewers. To accomplish these tasks, three monochromatic laser outputs will be used as primary colors, and combined additively to form white light of selected chromatic content. An incoherent source of light will be provided for comparison purposes. Suitable optics, viewing screen and light manipulation devices will be included.

4. Analysis of Display Technology. This project will result in the compilation of a reference, listing the CRT display components and systems and their performance parameters, which are currently available from industry. Evaluations of the equipment will be made in light of

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SUBJECT: Coordination of Three NPIC R&D Projects

several proposed applications to NPIC exploitation operations. Technological limits and cost trade-offs will be described. A prognosis of the equipment that will be available five years from now will be made.

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Chairman, Technical Task Team,  
EXRAND

Distribution:

Original - Addressee

1 - Ea. EXRAND Member

1 - TSSG/RED/SA

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